INDEX TO MAMMALS COLLECTED IN ARIZONA.

(Fort Verde, etc. 1884 – 1888.)

OFFICIAL BUSINESS.

2[illegible] - 33
306 - [illegible]
279 - 35
489 - 34
[illegible] - [illegible]
661

345
4
1380
690
8280
440
3880
3520
360

440 | 18 36/44

18 9/11

Spermophilus tereticaudus

168 ♀ad. March 28, 1885.
169 ♂ad. " 28, "
170 ♀ad. " 28, "
171 ♂ad. " 28, "
172 ♂ad. " 28, "
174 ♀ad. " 30, "
195 ♂ad. May 23 or 14
227 ♀ad. April 6, 1885 Mesa
228 ♂ad. May 15. " "

Sciurus aberti.

133 ♂juv. Oct. 4, 1884.
138 ♂ad. Oct. 5, 1884
139 ♂ad. " " "
140 ♀ad. " 7 "
141 ♂ad. " 8 "
144 ♀ad. " 25 "
145 ♀ad. " " "
420 ♀ad. June 21, 1886
421 ♂ad. " " "
422 ♀ad. " 19 "
429 ♂ad. July 3. "
468 ♂ad. Oct. 25, 1886. P. 78.

number these at the end of all (665 + 666)

665 ♂ ad. Nov. 2, 1886. P. 98. No measurements
526 ♂ ad. 666 do do
529 ♂ ad. 667 do do
533 ♂ ad. May 22, 1887

Jaculus lateralis

424 ♀ad. June 21, 1886
425 ♀ad. " 20, "
426 ♀ad. " " "
427 ♀ad. " " "
437 ♀ad. July 22, "
539 ♂ad. May 23 1887
540 ♂ad. " " "
541 ♀ad. " " "
542 ♀ad. " " "
549 ♀ad. May 26 "
551 ♀ad. " 27 "
564 ♂ad. " 28 "
573 ♀ad. June 1 "
584 ♂ad. June 8 "
604 ♀ad. July 14, 1887. P. 261.
605 ♀od. - - " - - "
608 ♂juv. July 15, 1887. - - "
609 ♂juv. - - " - - - "
617 ♂ad. July 31, 1887. P. 262.
618 ♂ad. - - - - " - - - -

Zamias harrisi

93 ♂ad. Apr. 8, 1884.
94 ♂ad. " 15. "
107 ♀juv. June 26, "
125 ♂ad. Sept. 10 "
129 ♂ad. " 19 "
130 ♀juv. " " "
150 ♀ad. Nov. 20 "
151 ♀ad. " " "
152 ♀ad. " " "
153 ♂ad. " 16 "
166 ♂ad. Jan. 24, "
173 ♀ad. March 28, 1885
224 ♀juv. July 20, 1885
229 ♂ Aug. 17, "
230 ♂ " " "
231 ♂ " " "
232 ♀ad. " 28, 1885
236 ♀ad. " " "
287 ♂ad. Dec. 8 "
308 ♂ad. Jan 30, 1886.
337 ♂ad. March 19, 1886

Canis latrans

378 ♂ad. March, 1886.
435 ♂ad. July 15, 1886
436 ♂ad. July 29 1886.
466 ♂ad. Sept. 27, 1886 P. 71
478 ♂ad. 1887. P. 134.
490 ♂ad. Jan. 20, 1887 P. 150
491 ♂ad. Jan. 20, 1887 - " -
492 ♂ad. - - " - - " -
493 ♂ad. - - " - - " -
494 ♀ad. - - " - - " -
495 ♀ad. - - " - - " -
496 ♀ad - - " - - " -
497 ad. - - " - - " -
517 ♀ad. Febr. 12, 1887. P. 157
518 ♂ad. - - - " - - - - "
519 ♀ad. Febr. 13, 1887. - - "
523 ♀ad. Febr. 15, 1887. P. 169
525 ♂ad. Mar. 21, 1887. P. 176.

Bassaris astuta.

294 ♀ad. Dec. 30, 1885.
295 ♀ad. " 30, 1885
296 ♂ad. " 27, 1885.
304 ♂ad. " 26, "
322 ♀ad. Febr. 8, 1886
634 ad. June 7, 1887. P. 258
647 ♀ad. Dec. 8, 1887. P. 303

Ovis montana

599. ♂ad. Horn pieced upon d. F. tutin. in June. 1887. Page 256

Cynomys columbianus.

96 ♀ad. April 25, 1884
176 ♂ad. " 9, 1885
177 ♂ad. " " "
178 ♂ad. " " "
179 ♂ad. " " "
180 ♂ad. " " "
181 ♂ad. " " "
182 ♀ad. " " "
183 ♀ad. " " "
184 ♀ad. " " "
185 ♀ad. " " "
186 ♀ad. " " "
187 ♀ad. " " "
190 ♂ad. May 3, "
359 ♂ad. Jan. 30, 1886
360 ♀ad. " " "
569 ♂ad. Mar 30 or 28, 1887.
570 ♀ad. May 31, 1887
571 ♂ad. " " "
572 ♀ad. " " "
575 ♂ad. June 2 "

Spermophilus grammurus

91 ♂ad. March 22, 1884
98 ♂ad. May 9. "
99 ♂ad. " 8, "
119 ♀ad. Aug. 16, "
221 ♂ad. July 7, 1885.
330 ♂ad. Febr. 18, 1886.
366 ♀ad. Mar 27, 1886.
367 ♀ad. " 27, 1886.
370 ♂ad. April 3 "
371 ♂ad. " " "
389 ♀ad. " 17 "
390 ♂ad. " 18 "
397 ♂ad. " 7 "
398 ♀ad. " 9 "
399 ♀ad " 9 "
400 ♀ad. " 12 "
402 ♂ad. " 27 "
409 ♂ad. June 14, "
423 ♀ad. June 20, "

Sciurus hudsonius fremonti.

135 ♀ad. Oct. 4, 1884 "
136 ♀ad. " " "
137 ♂ad. " 5 "
537 ♂ad. May 23, 1887.
538 ♀ad. " " "
543 ♂ad. May 25, "
544 ♂ad. " " "
558 ♀ad. May 27. "
559 ♂ad. " " "
560 ♂ad. " " "
561 ♂ad. " " "
562 ♂ad. " " "
563 ♂ad. " 28 "
579 ♂ad. June 6 "
597 ♂ad. June 9, 1887. P. 255.
598 ♂ad. June 15, 1887. P. 255.
611 ♀ad. July 21, 1887. P. 261
667 ♂ad. Aug. 22, 1887. (small note book S. F. Tutt)

Sciurus arizonensis:

355 ♂ad. March 18, 1886
356 ♂ad. " " "
357 ♂ad. " 19 "
363 ♂ad. " 27 "
364 ♂ad. " 29 "
365 ♀ad. " " "
394 ♀ad. April 5 "
395 ♀ad. " 12 "
614 ♀ juv. July 30, 1887. P. 261
623 ♂ad. Aug. 10, 1887. P. 262
624 ♂od. - - - " - - - "
625 ♂juv. - - " - - - "
626 ♀ad. - - - " - - - "
627 ♀ad. Aug. 11, 1887. - - "

Lynx rufus maculatus

220. ♂ad. Febr. 11, 1886
237 ♂juv. Aug. 30, " 429
281 ♀juv. Nov. 26, " 57
307 ♂ad. Jan. 12, 1886
311 ♀juv. Febr. 3, 1886.
313 ♂ad. " 5, 128 "
335 ♂ad. March 12, 154 "
349 ♂ad. Febr. 19, 160 "
358 ♀juv. Jan. 10, 1886.
439 ♂ad. Aug. 1, 1886. 24
456 ♂juv. Sept. 7. 1886. P. 57.
473 ♂ad. Nov. 29, 1886. P. 106.
481 ♀ad. Dec. 25, 1886. P. 134.
482 ♂ad. Jan. 24, 1887. P. 146
498 ♀ad. 1887. P. 157
499 ♂ad. Jan. 26, 1887. P. 151.
636 ♂ Oct. 26, 1887. P. 281
648 ♀ad. Dec. 14, 1887. P. 303
649 ♀ad. Dec. 20, 1887. P. 305

Vulpes velox

193. ad. May 12, 1886

Dipodomys phillipsii ordii

131 ♀juv. Sept. 20 1884 P. 207
194 ♂ad. May 16, 1885
260 ♀ad Oct. 1, 1885.
403 ♀ad. April 27 1886
404 ♂juv. " " "
405 ♀juv. " " 28 "
442 ♂juv. Aug. 2, 1886.
483 ♂ad. Jan. 26, 1887. P. 146.
484 ♀ad. " P. 147
485 ♂ad. " "
486 ♂ad. " "

Zamias asiaticus quadrivittatus

534 ♂ad. Oct 4, 1884
545 ♀ad. May 25, 1887
546 ♀ad. " 26, "
547 ♀ad. " " "
548 ♀ad. " " "
550 ♂ad. " 27 "
552 ♀ad. " " "
553 ♂ad. " " "
574 ♂ad. June 2 "
580 ♀ad. June 6 "
586 ♀ad. June 11 "
587 ♀ad. " " "
595 ♀ad. " 17 "
Measurements tabulated
596 ♀ad. June 17, 1887. P. 256.

Felis concolor.

196. ♂ad. Winter of 1884-85.
286 ♀ad. Dec. 1, 1885.
289 ♂ad. Dec. 8. "
290 ♂ad. Skull only d.
309 ♀ad. Skin (Carnes)
310 ♂juv. " "
373 ♂. March 13, 1886
374 ♀ " 12 "
375 ♂ " 11 "
376 ♂ " ? "
377 ♂ " 14 "
502 ♀ad. Dec. 1, 1886. P. 151
520 ♂juv. Dec. 1, 1886. P. 151+152

Procyon cinero-argentatus

147 - ad Nov. 12, 1884
319 ♂ad. Febr. 1, 1886.
325 - ad. 1886. Fonnes.
326 ♂ad. Hunter's Skin
327 ? ad Skull found 1884
472 ♂ad. Nov. 22 1886. P. 102.
592 ad. Skull picked up on San Francisco Mtn 1887. P. 255
664 ♀ad. Febr. 10, 1888, P. 86.

Procyon hernandezi.

312 ♂ad. Febr. 3, 1886.
368 ♂ad Mar. 29, 1886.
438 ♂ad. July 25, 1886
500 ad. Jan. 20, 1887.
501 ad. Jan. 23, 1887.
514 ♂ad. Febr. 10, 1887. P. 163.
646 ♂ad. Nov. 16, 1887. P. 294.

Putorius ?

428 ♀ad. June 20, 1886
651 ♂ad. Sept. 20, 1887 P. 308.

Felis domesticus -

317. ♂ad. Jan. 15, 1886. Skull
318 ♂od. " " "

Hesperomys (Onychomys) leucogaster torridus.

154 ♂ad. Dec. 7, 1884.
387 ♀ad. April 15, 1886

534 ♀ ad. May 23, 1887.
535 ♀ ad. " " "
554 ♀ ad. " 27. "
555 ♀ ad. " " "
556 ♀ ad. " " "
557 ♀ ad. " " "
565 ♀ ad. " 28 "
566 ♀ ad. " " "
567 ♀ ad " " "
568. ♀ ad. " " "
577 ♀ ad. June 3 "
583 ♀ ad. June 8 "
590 ♀ ad. June 19, 1887. P. 255
591 ♀ ad. — — do — —
600 ♂ ad. July 12, 1887, P. 261.
601 ♂ ad. July 13, 1887, P. 261.
602 ♂ ad. — — " — — — " — —
606 ♂ ad. July 14, 1887, P. 261
607 ♀ juv. — — " — — — " — —
615 ♀ juv. July 30, 1887. P. 262.
621 ♀ ad. August 3, 1887. P. 262.

619 ♂ ad. Aug. 1, 1887. P. 262.
631 ♀ ad. Aug. 21, 1887. P. 262.
659 ♀ ad. (see Journal for date) 1888. Only on Table of measurement. No. not in book. Mag. Oteys house.

339. ♂ ad. March 20, 1886.
340 ♀ ad. " " "
342 ♀ ad. " " "
343 ♂ ad. " " "
344 ♂ ad. " " "
345 ♀ ad. " 22 "
372 ♂ ad. April 8, "
~~373~~ 388 ♂ ad. apr. 17, "
443 ♀ juv. Aug. 7, "
476 ♂ ad. Jan. 18, 1887. P. 132.
658 ♂ ad. April 25, 1888. P. 21.

576 Ad. June 2, 1887

596 Jur. May 31, 1887. P. 255.

637 Ad. Nov. 6, 1887. P. 286.

638 Ad. -- " -- " --

639 Ad. -- " -- " --

640 Ad. -- " -- " --

4 ♀ 307 ad. July 25, 1886.

453 ♂ ad. Aug. 25, 1886. P. 42.
457 ♂ ad. Sept. 14, 1886. P. 62.
463 ♂ Sept. 20, 1886. P. 67.
465 ♂ ♀ ad. Sept. 24, 1886. P. 68.
524 ♂ ♀ ad. March 8, 1887. P. 169.
526 ♂ ad. March 30, 1887. P. 184.
527 ♂ ad. April 22, 1887. P. 215.
530 ♂ ♀ ad. May 7, 1887. P. 236.
531 ♂ ad. May 21, 1887.
578 ♂ ad. June 3, 1887
622. ♂ ad. Aug. 8, 1887. P. 262
635 ♀ ad. Oct. 13, 1887. P. 272.
644 ♂ ad. Nov. 12, 1887. P. 290
646 ♀ juv. --- " --- " ---
657 ♂ ad. April 25, 1888. P. 21

662 ♂ ad. May 14, 1888. P. 29.

Ursus horribilis

459 ♂ ad. 1886. p. 65.
(Measurements also on p. 69.)
516. ♀ ad. Nov. 24, 1886. P. 155.
? 594 Skull picked up on S. H. Mtn. in 1887. P. 255.
(probably it is U. americanus)

Ursus americanus.

329 ? ad Found Jan. 14, 1885
431 ? ad July, 1885.
432 ♀ ad. June 1886.
433 ♀ juv. June 1886
434 ? juv. " "
460† juv. 1886. P. 65.
461* ad. Sept. 11, 1886. P. 65.
462 ad. Sept. 12, 1886. P. 65.
? 594 Skull picked up on S. H. Mtn. in 1887. Possibly ursus horribilis.

† Color brownish-black.
* "Black phase."
† "Brown phase."

Castor fiber canadensis.

120 ♀ ad. Aug. 16, 1884
122 ♀ juv. " 19 "
123 ♀ juv. " " "
198 ♀ juv. June 13. 1885
199 ♀ juv. " "
201 to 217, inclusive are hunters skins
262 ♀ ad. Oct. 14, 1885
265 ♀ juv. " 17, "
323 ? ad. Skull, found.
324 ? ad. " "
406 ♀ ad. May 28, 1886.
407 ♂ juv. " "
479 ♀ ad. Dec. 23, 1887. P. 134
480 ? ad. Dec. ?, 1886. P. 134
503 ♀ juv. Jan. 24, 1887. P. 151
504 ♀ ad. Jan. 27, 1887. " "
505 ♀ ad. " " " "
506 ♀ ad. " " " "
507 ♀ ad. Jan. 28, 1887. " "
(over)

Lepus callotis texianus.

104 ♀ juv. June 16, 1884.
128 ♀ juv. Sept. 14 "
163 ♀ ad. Jan. 8, 1885.
188 ♀ ad. Apr. 20, "
331 ♀ ad. Febr. 25, 1886.
332 ♀ ad. " " "
333 ♀ ad. " " "
334 ♀ ad. March 8, "
350 ♀ ad. " 7. "
351 ♀ ad. " " "
352 ♀ ad. Oct. 9 1884.
353 ♀ ad. Nov. 15, 1884.
354 ♀ ad. " 12, 1885
361 ♀ ad. Jan. 30, 1886.
369 ♀ ad. April 3, 1886.
445 ♀ ad. Skull 1886
446 ♀ ad Skull 1886
447 ♀ ad Skull 1886
(over)

Neotoma floridana mex.

254 ♂ — Oct. 2, 1885.
279 ♀ ad. Nov. 13, "
306 ♀ ad. Jan. 7, 1886.
489 ♀ (ad.?) Febr. 3, 1887. P. 149
603 ♀ ad. July 13, 1887. P. 261
660 ♀ ad. 1888 (see if date is in Journal. Taken shortly before I left arizona. Ask — Table of meas. My house.
661. ♀ Progeny of above "

obs. 46
Kan 74

Memorandum of boxes

No. 4 Wt. 70 Contains nests only

No. 3 Wt. 76 Contains birds (Hummers) nests + Eggs, etc.

Conepatus mapurito.

239. ♀ ad. Jan. 17, 1885.
246 ♂ ad. Sept. 23, 1885
252 ♀ juv. Oct. 1, 1885.
260 ♂ juv. " 14, "
301 ♀ ad. Dec. 29. "
302 ♂ ad. " " "
303 ♀ ad. " " "

Bats. Long-eared P. 28

97. ♂ ad. May 6, 1884
100 ♀ ad. May 23, 1884 Long-eared
101 ♀ ad. " " " "
110 ♀ juv. July 15. " " "
111 ♀ juv. " 26 " " "
112 ♂ juv. " 26 " " "
113 ♀ juv. " 26 " " "
114 ♀ ad. Aug. 10 " " "
115 ♂ ad. " " P. 163
116 ♂ ad. " 12 " P. 163 " "
117 ♂ ad. " 12 " 163 " "
118 ♀ ad Aug. 15. Little Brown P. 168
121 ♀ juv. Aug. 19, 1884 Long-ears.
124 ♂ ad. Sept. 10 " " "
127 ♂ ad. " 14 " Little Brown
233 ♂ ad. Aug. 19, 1885 P. 423
238 ♀ ad. Sept. 15. " Large Brown
444 ♀ ad. Aug. 10, 1886. Large Brown
445 ♂ ad. Aug. 19, 1886 Long-eared
(over)

Canicus macrotis montanus

161 ♂ ad. Jan. 6, 1886.
162 ♀ ad. " 8, "
165 ♂ ad. Jan. 20 "
167 ♀ ad. March 6. "
277 ♂ ad. Nov. 9. "
278 ♂ ad. " 9 "
282 ♂ ad. Nov. 27 "
283 ♀ ad. " "
284 ♀ ad. " "
285 ♂ juv. " "
288 ♂ ad. Dec. 9, "
293 ♂ ad. Dec. 22, "
297 ♀ ad. Dec. 29. "
314 ♂ ad. Dec. 14, 1884.
315 ♂ ad. Winter "
316 ♂ ad. " "
328 ♂ ad. Jan. 4, 1886.
384 ♂ ad. March 1886.
385 ♂ ad. Found. March 1886

Hesperomys leucopus arenicola

142 ♀ ad. Oct. 22, 1884
143 ♀ juv. " " "
244 ♂ ad. Sept. 23, 1885
245 ♀ juv. " "
247 ♂ ad. Sept. 26, "
248 ♀ ad. " "
255 ♂ juv. Oct. 3. "
259 ♂ ad. " "
261 ♀ juv. " 12 "
264 ♂ ad. " 15 "
266 ♀ juv. " 18 "
269 ♂ ad. " 20 "
271 ♂ ad. " 24 "
272 ♀ ad. " " "
274 ♂ ad. " 28 "
292 ♂ ad. Dec. 28, "
305 ♀ ad. " 29, "
401 ♀ ad. April 10, 1886
581 ♂ ad. June 6, 1887

Lepus sylvaticus arizonae

92 ♂ ad. April 8, 1884
102 ♂ juv. May 26, "
105 ♀ juv. June 16, "
126 ♀ ad. Sept. 11, 1884.
155 ♂ ad. Dec. 27, "
156 ♂ ad. " "
167 ♂ ad. " "
158 ♂ ad. Dec. 30 "
160 ♂ ad. Jan 8, 1886.
164 ♂ ad. Jan 8, 1885
189 ♂ ad. April 27, 1885
338 ♂ ad. March 19, 1886.
341 ♀ ad. " 20, "
346 ♀ ad. " 22 "
347 ♀ ad. " " "
348 ♀ ad. " " "
362 ♀ ad. " 25 "
448 ♂ ad. Aug. 16, "
(over)

Canicus virginianus ~~alleni~~ Brooki.

159 ♂ juv. Dec. 5, 1884

Tamias asiaticus dorsalis.

95. ♀ ad. April 21, 1884
146 ♀ ad. Nov. 11, "
197 ♀ ad. June 4, 1885
240 ♂ ad. Sept. 17. "
280 ♀ ad. Nov. 19, "
536 ♀ ad. May 22 1886.
Measurements tabulated
628 ♀ Aug. 11, 1887. P. 262
633 ♂ ad. Aug. 30, 1887. P. 257.
641 ♀ ad. Nov. 12, 1887. P. 290.
642 ♀ ad. - - " - - - " - -
643 ♂ ad. - - - " - - - - " - -

Mephitis mephitica.

218 ♀ ad. (Whipple, J. Crook)
222 ♂ juv. July 10, 1885
223 ♂ juv. " 11, "
226 ♀ juv. " 25 "
249 ♂ juv. Sept. 26, "
256 ♂ juv. Oct. 3, "
257 ♀ juv. " 8, "
267 ♂ juv. " 10, "
268 ♂ ad. " 18 "
441 ♂ juv. Aug. 2, 1886.
458 ♀ ad. Sept. 16, 1886. P. 64.
469 ♂ ad. Oct. 29, 1886. P. 79.

Arvicola: —

613 ♂ (ad.?) July 26, 1887. P. 261.

Mus musculus.

108 ♀ juv. July 13. 1884
109 ♂ ad. " " "
132 ♀ juv. Sept. 21 "
270 ♂ ad. Oct. 22 1885

Antelocapra americana.

276 ♂ ad. Nov. 9, 1885.
379 ♂ ad. April 3, 1886.
380 ♀ juv. " " "
381 ♀ ad. " " "
382 ♀ ad. March 10 "
383 ♀ ad. " 11 "
440 ♂ ad. Aug. 2, 1886
588 ♀ ad. June 13, 1887
589 juv. " " "
593 ad. Skull found S. H. Mtn. P. 265

Lepus callotis callotis

175 ♀ ad. April 2, 1885.
191 ♂ ad. May 8, "
192 ♀ ad. " " "

Lepus sylvaticus nuttalli

148 ♂ ad. Nov. 15, 1884

Liver Zibethicus.

106 ♂ ad. June 26, 1884
200 ♂ ad. June 15, 1885
225 ♂ ad. July 22, 1885
232 ♂ ad. Aug. 19, 1885
241 ♂ ad. Sept. 17, "
408 ♂ juv. June 4, 1886.
451 ♂ ad. Aug. 23, 1886. P. 39.
454 ♀ ad. Aug. 28, 1886. P. 46.
464 ♂ ad. Sept. 20, 1886. P. 67.
663 ♂ ad. May 15, 1888. P. 30.

Taxidea americana berlandieri

236. ♀ ad. Aug. 30, 1885.
260 ♂ ad. Oct. 12, 1885
698 ♂ ad. Feb. 3, 1888 P. 80.

236 = 2496/1935 Am. Mus.
698 = 2 broken/1936 Am. Mus.
260 in nests not numbered, fore part of jaws in skin.

Complete to 328

508. ♀ad. Jan. 29, 1887. P. 151.
509 ♂ad. Jan. 31, 1887. P. 151
510 ♂ad. Febr. 5, 1887. P. 152.
511 ♀ad. Febr. 7, 1887. P. 152.
515 ♀ad. Febr. 10, 1887. P. 154.
522 ♂juv. Febr. 21, 1887. P. 159.

512 ♂ad. Febr. 9, 1887, P. 153.
513 ♀ad. ——"——"——
521 ♀ad. Febr. 21, 1887. P. 159.

532 ♂ad May 23, 1887.
653 ♀ad. April 15, 1888, P. 18.

450 ♂ad. Aug. 19, 1886. Little Brown P. 38.
452 ♂ad. Aug. 25, 1886. Little Brown P. 41.

386 ♂ad. March 7, 1886
410 ♂ad. Jan. 12, 1886
411 ♂ad. Mar. 7, 1886
412 ♂ad. July 2, 1886
413 ♂ad. Form Found in 1886.
414 ♂ad. " " " "
415 ♂ad. " " " "
416 ♂ad. " " " "
417 ♂ad. " " " "
418 ♂ — " " " "
419 ♂ad. " " " "
471. ♂ad. Nov. 19, 1886. P. 100.
612 ♀ad. July 26, 1887. P. 261.
620 ♂ad. Aug. 3, 1887. P. 262

582 ♀ad. June 7, 1887.
585. ♂ad. June 9, 1887
628. ♀ad. May 14, 1887. P. 248.
629 ♂ad. ? June 27, 1887. P. 249.

Var. Sonomensis (Baker's Butte).

610 ad. July 19, 1887. P. 261
616 ♂juv. July 30, 1887. P. 262
629 ♀ad. Aug. 15, 1887. P. 262
630 ♂juv. —— " —— " ——
632 ♂juv. Aug. 21, 1887 " ——

? 654. April 23, 1888. P. 19.

650 ♀ad. Dec. 20, 1887. P. 305.
652 ♀ad. March 26, 1888. P. 11.
655 ♀ad. April 23, 1888. P. 19.
656 ♀ad. April 23, 1888. P. 19.

Lutra Canadensis

475. ♀ ad. Dec 26, 1885. P. 117.
477. ♂ ad. Jan. 25, 1887. P. 133.
"Skull broken" p. 133.
(No 703)
~~Probably~~ also a skull, from Milligan, caught in box cañon of the Verde River.
703. ♂ ad. Skull. Febr. 13, 1888. P. 80.

Thomomys talpoides umbrinus

103 ♂ ad. June 8, 1884.

149 ♀ Nov. 15. "

251 ♀ ad. Oct. 1, 1885

275 ♀ ad. Nov. 1. 1885

391 ♀ ad. April 6 1886

392 ♀ ad. " " "

393 ♀ juv. " 11 "

487 ♀ ad. Febr. 3, 1887. P. 149

488 ♂ ad. " "

Sigmodon hispidus arizonæ

242 ♂ ad. Sept. 18, 1885

243 ♂ ad. " " "

253 ♂ juv. Oct. 2, 1885.

455 ♀ ad. Sept. 3, 1886. P. 53.

Mephitis interrupta.

219 ♂ ad. Skull; Crook
273 ♂ ad. Oct. 26, 1886
291 ♂ ad. Dec. 26, 1885
298 ♀ ad. " 29, "
299 ♀ " 30 "
300 ♀ " " "
320 ♂ ad. Febr. 2, 1886.
321 ♀ ad. Febr. 6, 1886.
336 ♂ ad. Mar. 13, 1886.
396 ♂ ad. April 8, 1886
467 ♂ ad. Oct. 7, 1886. P. 7[illegible]
470 ♂ ad. Nov. 19, 1886. P. 100.
474 ♂ ad. Dec. 11, 1886. P. 108.

Spilogale sp. arizonae.

E. A. Mearns.

E.A.MEARNS

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* Name from Coues & Yarrow, p. 84.

List of Books Collated for Synonymy of Arizona Mammals.

Proc. U. S. Nat. Mus. Vol. VII, 1884.
Bost. Soc. N. H. 18th Period. V, 1875.
Allen's N. Am. Fauna, Nos. 1, 2.

"The following species of this same section will probably be found in Arizona:"

Hesperomys? eremicus californicus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 104 "Hab. - Southern and Lower California."

Dicotyles tajacu, (Linné) Selater. Common Peccary.

Cariacus macrotis. (Say) Brooks. Mule Deer.

Cariacus macrotis.
Ives and Yarrow, Expl. W. 100th Merid., V, 1875, 71.
No specific statement of its occurrence S. of Gunnison R. Col.

Cariacus virginianus crookii, subsp. nov.

Habitat ~~Eastern Arizona (chiefly the Gila and Colorado Basins), New Mexico~~ Eastern Arizona, north of the Gila River, ranging eastward in New Mexico.

176

177

Cariacus virginianus Couesi, Rothrock. Dwarf Arizona deer.

Cervus virginianus var. *couesi*, Rothrock, MSS.

Cervicus virginianus, var., Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 72-79. "Nowhere else in North America have I seen deer more abundant than these Dwarf Deer were in Southern Arizona, nor have I anywhere more thoroughly enjoyed the sport of hunting them." (Rothrock). See this article for account of habits of deer. [Should quote habitat of this as "Arizona, south of the Gila River, and northward into Sonora"]

Cervus canadensis, Erxleben. Wapiti; American "Elk."

Cervus canadensis, Coues and Harrow, Zoöl. Expl. W. 100 dth Merid., V, 1875, 70. [Mentions doubtful occurrence.] "Indians of Nevada spoke of its occurrence there, and had in their possession skins and horns said to have been obtained in the mountains."

"Remains of a Moose (Alce americana), said to have been killed on South Park, Colorado, in 1871, were observed by the expedition. The statement is open to doubt; if correct, it fixes the southernmost limit of the species.

Antilocapra americana, Ord. Prong-horn Antelope or Cabrit.

Antilocapra americana, Coues and Harrow, Zoöl. Expl. W. 100th Merid., V, 1875, 69. A spec. from South Park, Col., and one from N. Mex. "One specimen of this beautiful animal was found in Spring Valley, Nevada. Hundreds of them were ~~found~~ seen on the Colorado plateau, especially around Bill Williams' Mountain." "Very common on plains to the westward of Smith's Fork. Common on plains west of Missouri. Visits the mountains near South Park, Colorado, to breed, in June and July (fide Rathbone).

182

Bison americanus, (Gmelin) Gray. American Buffalo.

Bison americanus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 67. "Not common in Colorado, but a few individuals in 1873 visited South Park. One female was killed and calf captured."

"In Arizona, Dr. Coues obtained some years since evidence considered satisfactory of the former presence of the Buffalo in that Territory, where it is now entirely unknown."

"Formerly quite common in Utah, as it is still remembered by the older Indians." They state that skulls of Buffalo are sometimes found by fishermen from Utah Lake.

183

Aplocerus columbrianus Rocky Mountain Goat.

Aplocerus columbrianus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 68. "One individual seen in Colorado by Lieutenant Marshall's party." "Seen by Captain Anderson, of the British Boundary Commission, in 1874, in Rocky Mountains, near Chief Mountain Lake, lat. 49°."

184

185

Ovis montana, Cuvier. Bighorn; Mountain Sheep.

Ovis montana, Cones and Warren; Proc. Ex. Pl. N. Am. Mamd., V, 1875, 68. "Common in mountainous portions of the regions explored." Two skulls from N. Mex., one from near Santa Fé.

186

Cynomys columbianus, (Ord) Allen. Western Barking Squirrel; Western "Prairie Dog."

Cynomys columbianus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 122. — Observed by the expiditions only in two localities in Utah & Colo., and no mention is made of its occurrence further south.

187

Arctomys flaviventer, Pucl. Coues and Beck Yarrow

Arctomys flaviventer, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 123. "Rabbits scarce in Colorado, where, however, several specimens were secured." In the table a specimen is also given from Santa Fé, N. Mex., collected by Dr. Yarrow.

Tamias lateralis, (Say) Allen. Says Chipmunk.

Tamias lateralis, Coues and Yarrow, Zoöl. Expl. W. 100th Merid. V, 1875, 119. In the table there is but one specimen, which is given "Apache, Arizona." "Found northward from New Mexico in the Mountains (Allen). But the specimens secured from Arizona, which increase its known range southward."

Tamias asiaticus quadrivittatus, (Say) Allen. Rocky Mountain Chipmunk.

Tamias quadrivittatus, Coues 100th Merid., V, 1875, in N. Mex. the, obtained at Fort Wingate, and Santa Fé; in Arizona Dr. Yarrow took at Mt. Graham, and Huachuca Mts. indicated by ?, "Arizona."

and Yarrow, Zoöl. Expl. W. 117. Many spec. from Colo.

Tamias asiaticus flavidus

Tamias quadrivittatus flavidus, W. 100th Merid., V, 1875, under the head of this subsp.; obtained at El Morro, N. Mex, both by Mr. Henshaw

Coues and Yarrow, Zoöl. Expl. 118. There are no remarks under this subsp.; but in the table is a spec. obtained at El Morro, N. Mex, and one at Apache, Ariz.,

Tamias dorsalis, Baird. Gila Chipmunk.

Tamias asiaticus dorsalis, ~~Baird~~ ~~Allen~~ True, Proc. U.S. Nat. Mus., VII, 188, 093 ["New Mexico, Nevada and Arizona."]

Tamias quadrivittatus dorsalis, Coues and Yarrow, Zoöl. Expl. & W. 100th Merid., V, 1875, 119. "This form, originally described from the Mimbres, and afterwards figured by Dr. Coues at Fort Bayard, is more distinct than further lately recognized "varieties" of T. quadrivittatus; yet, we do not feel confident that the Arizona late assignment of it to this species may not require reconsideration. For the present, however, we accept this determination."

194

Sciurus Harrisi, (Aud. and Bach.) Allen. Harris's Chipmunk.

Spermophilus Harrisi, Coues and Yarrow, Zoöl. Exp. Ft. No. 100 dth. Merid., V, 1875, 120. "Very numerous in Southern Utah & living among the lava-beds." Nothing else about this species is known to S. lateralis, Richardson

196

Tamias lepturus, Merriam. White-tailed Chipmunk.

Tamias lepturus, Merriam, N. Am. Fauna, No. 2, Oct. 30, 1889, 19. Described from "the sequim of the Lower Colorado River. Type from "San Gorgonio Pass, California, May 10, 1885."

Spermophilus tridecem lineatus

Spermophilus tridecem-lineatus, Coues and Yarrow, Zoöl. Expl. W. 100 dth Merid., V, 1875, 120. In the table are five specs from Colo., and one from Terra Amarilla, N. Mex.

198

Rock Mountain
Spermophilus grammurus grammurus, (Say) Allen. Line-tailed Spermophile.

Spermophilus grammurus, Coues and Yarrow, Zool. Expl. W. 100 dth Merid., V, 1875, 121. Specimens from Col., N. Mex., and Ariz.

199

200

Thermobius tertiandus, Baird. Fortissima Spermophile.

201

202

Dipodomys neglectus, Merriam.

Dipodomys neglectus, Merriam, North American Fauna, No. 2, Oct. 30, 1889, 17 "Kyle $\frac{5262}{5982}$ ♂. Dolan Spring, Arizona, February 9, 1889. Vernon Bailey." Five specs "from the valley 1 mile west of Dolan Spring (altitude about 3,000 feet), collected February 9, 1889, and all males", etc. "A specimen from Mineral Park, Arizona (No. 52643), collected February 12, 1889", etc. "Four specimens collected at Kingman, Ariz., March 11 and 12, 1889."

203

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205

Neotoma fuscipes subsp. nov. Mogollon Mountain Cliff area.

Neotoma fuscipes Lemorti, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 117 (only in part). "Very numerous in mountains of Colorado, New Mexico, and Arizona." Of the 16 spec. coll. by the Expd., there was one skin from Ft. Wingate, N. Mex., Camp Apache, Ariz., & White Mtns, Ariz.

206

207

Sciurus arizonensis, Coues. Arizona Gray Squirrel.

Sciurus arizonensis, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 116. "The squirrel was discovered by Dr. Coues at Fort Whipple in 1865, and the single specimen then procured remains unique." Critical rem.

208

209

Sciurus aberti, Woodhouse. Abert's Pine Squirrel.

Sciurus aberti, Coues and Prentiss, Zoöl. Expl. W. 100th Merid., V, 1875, 115. Specimens from "Terra Amarilla, Colo."; "Camp Apache, Ariz."; "Mt. Taylor, N. Mex."; "Bowie, N. Mex."; and "Santa Fé, N. Mex." "One specimen was taken in Northwestern Colorado, which is probably its most northern limit." There are interesting critical remarks.

210

Castor fiber, Linné. Beaver.

Castor (fiber var.?) canadensis, Journ. Acad. Nat. Sc. Phil. Ed. Ill. Nr. 100 ad Merid., W., 1875, 123 = Vride + Rel. Rivin, etc.

212

213

Fiber gibbithicus Ohahmani, subsp. nov. Arizona Muskrat.

Fiber gibbithicus, Coues and Yarrow, Zool. Exp. W. 100th Merid., v, 1875, 108. "Found throughout entire area of North American Continent. Seen by members of the expedition, but more secured. Common upon all the streams throughout the territory of Utah; a great number being captured every year for their skins, which meet with a ready sale in Salt Lake City."

Arvicola Mouse.

Arvicola (Myonomes) riparius, Forbes and Marrow. Zoöl. Exp. W. 100th Meridian, V, 1887, 106. In the table are ten specimens from Colorado; one from Mount Graham, Arizona; one from the White Mountains, Arizona. "Only one other is certainly known from the same portion of the continent, the A. castata of Cope, a variety of Pedomys austerus, the synonymy of which last is also subjoined for comparison:"

"For characters of this subgenus, see table, p. 106."

Eusperomys torridus, Coues. Arizona Pole Mouse.

Eusperomys (Cryptomys) torridus, Coues and Yarrow, Zoöl. Expl. W. 100 dth Merid., V, 1875, 104." To the single previous species of this genus, Dr. Coues lately added a second, discovered in Arizona." "Hab. — Arizona."

Ochetodon humilus

Ochetodon humilus, Coues and Yarrow, Zoöl. Expl. W. 100 dth Merid., V, 1875, 105. "Hab. — United States, southerly. South Carolina to Texas. Kansas, Missouri, Iowa, Nebraska, Utah, Sonora."

"Although not observed by the expedition, the known range of this species as may be gathered from the foregoing, includes New Mexico and Arizona. The following species may also occur in the regions explored:"

"Ochetodon longicauda, (Baird) Coues."

"Hab. — California (? south thence to Guatemala)."

218

219

Perognathus fasciatus fasciatus (Coues) Coues. Sonoran White-footed Mouse.

H. [*Saccomys*] *fasciatus* [Coues], Coues and Yarrow, Zool. Expl. W. 100th M. Merid., V, 1875, 702. Many specimens are examined from Colorado, New Mexico and Arizona.

220

"Haeromys Leucopus crenicus. (Baird) Coues. Desert Mouse.

Hesperomys (Vesperimus) americanus, var. crenicus, Coues & Yarrow Zoöl. Expl. W. 100th Merid., V, 1870, 104. "Valley of the Lila and Colorado."

222

223

Sciurodon hispidus arizonae, subsp. nov. Arizona Cotton Rat.

224

Neotoma

Wood Rat.

Neotoma floridana, Coues and Yarrow, Zool. Exp. W. 100th M. Rep., V, 1875, 107.

225

Neotoma cinerea, (Ord) Baird.

Neotoma cinerea, Coues and Yarrow, Zool. Exp. W. 100th M. Rep., V, 1875, 107. ("South to New Mexico, Arizona and California.")

Four specimens enumerated in the table were from Colorado, and one from the White Mountains, Arizona.

Thomomys talpoides umbrinus, (Richardson) Rocks. Southern Pocket-Gopher.

Thomomys talpoides umbrinus, 100 4th Meridl., V 570. Four from Mt. Graham, Ariz.	Cones and Narrow Zoöl. Expl. W. R specimens Aneth Provo, Utah, &c

Thomomys Pocket-Gophers

Geomys castanops (Baird) Le C.

Geomys castanops, Coues and Yarrow, Zoöl. Expl. W. 100 dth Merid., V, 1875, 111. "The original specimen of this species was taken near Bent's Fort, New Mexico. D. Coues has lately shown that the supposed G. clarkii is the same species."

230

231

Perognathus penicillatus, Woodhouse. Buff-tailed Pocket-Mouse.

Perognathus penicillatus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 110. "Originally described from the region embraced in the present report, of which it is a characteristic species." One spec. from N. Mex., 7 on the Ariz.

Perognathus penicillatus, Merriam, North American Fauna, No. 1, Oct. 25, 1889, 22, [illegible] Woodhouse's type "from San Francisco Mountain, Arizona, 1851," and cotypes "from South Colorado River, Arizona (Norton's, about 30 miles north of Yuma), March 28, 1889, Vernon Bailey."

Perognathus — Pocket-Mouse.

Perognathus flavescens, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 109. "Very common throughout Utah. A number of specimens obtained. It was obtained some years since at Fort Whipple, Ariz., by Dr. Coues, who subsequently found that its range extends to British America."

"Perognathus apache, sp. nov."
Described by Dr. C. Hart Merriam, in "North American Fauna", No. 1, Oct. 25, 1889, 14; ~~from~~ at the [illegible] from "Apache County, Arizona, May 22, 1888."

"Perognathus intermedius, sp. nov."
Described by Dr. C. Hart Merriam, in "North American Fauna", No. 1, Oct. 25, 1889, 18; type from "Mud Spring, Arizona, February 26, 1889. Vernon Bailey."

Perognathus monticola, Baird.

? Perognathus monticola, Coues and Yarrow, Zoöl. Expl. W. 100th Merid. V, 1875, 110. Two spec's obtained by Henshaw at Otter Creek, Utah are referred here, with extended critical remarks.

Perognathus monticola, Merriam, North American Fauna, No. 1, Oct. 25, 1889, 17. "P. monticola is a perfectly good species which has escaped notice since 1853, when the type and only known specimen was collected by Dr. George Suckley." [Look through his synonyms and see where the Coues or Yarrows above refered. Ed W.] He gives P. monticola as a synonym of the "Perognathus mollipilosus Coues" but seems to have overlooked the Wheeler report above cited.

"Perognathus fasciatus, sp. nov."
Described by Dr. C. Hart Merriam, in "North American Fauna", No. 1, Oct. 25, 1889, 12, from a specimen collected by Dr. Elliott Coues, at Fort Whipple, Arizona, May 21, 1865.

"Perognathus spinatus, sp. nov."
Described by Dr. C. Hart Merriam, in "North American Fauna, No. 1, Oct. 25, 1889, 21." The specimen figured, ~~is~~ from "Near Colorado River, Arizona."

234

235

Dipodomys phillipsii ordii, (Woodhouse) Coues. Ord's Pocket Rat, "Kangaroo Rat."

Dipodomys phillipsii ordii, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 109. A specimen from Twin Lakes, Colo., and one from "Arizona."

Erethizon dorsatus epixanthus, (Brandt) Allen, Western Porcupine.

Erethizon epixanthus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 124. They found it in Utah, Colorado and New Mexico.

Lagomys princeps

Lagomys princeps, Coues and Yarrow, Zool. Expl. W. 100th Merid. V, 1875, 125. In the table are five specs from Colorado, and one collected by Mr H. W. Henshaw, at "Apache, Ariz." "It generally inhabits the higher peaks, above timber-line, in the loose lava and scoria, where it hides."

We saw tracks around Crater Butte, E. of S. F. Utes.

238

239

Lepus sylvaticus arizonae Allen. Desert Hare.

Lepus Sylvaticus Nuttalli, Coues and Yarrow, Zoöl. Expl. W 100th Merid. V, 1875, 12 S (in part).

240

Thus sylvaticus nuttalli, (Bachman) Allen. Sage Hare.

Thus sylvaticus nuttalli. Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 128 (nr Fort).

241

242

243

Lepus americanus baileyi, (Hayd.) All. Bailey's Hare.

Lepus americanus baileyi, Coues and Yarrow, Zoöl. Expl. W. 100 dth Merid., V, 1875, 126. "Dr. Yarrow obtained a specimen in the "Mountains West of Taos, N. Mex." "A single specimen of this interesting late discovery was procured - an unexpected acquisition, largely extending the known range of the species. The specimen is recognized by its dusty-blackish ears, sharply bordered with white, giving an unusual effect. The rump is of the same black color

244

Lepus texianus, Waterhouse. Northern Jackass Hare.

Lepus callotis, Louisand Yarrow, Zool. Exp. N. 100th Merid., V, 1875, 126 (~~referring part to L. callotis~~ only in part).

246

Lepus callotis. Wagler. Southern Jackass Hare; Mexican Hare.

Lepus callotis. Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 126 (ref. to Mex. only to L. texianus).	

247

Lepus Californicus

Lepus californicus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, Pinal Mountains, near the Gila River (?), and in Owen's Valley, California. Skins obtained."	127. "Found south of the

Anthozoxus pallidus, (Le Conte) H. Allen. Tule Bat.

Anthozoxus pallidus, Coues and Yarrow, Zoöl. Expl. W. 100 dth Merid., V. 1875. 80. Specimens from Pueblo, Col. and Apache, Ariz. Fort Yuma (Coues).

H. Allen, Monog., 68. — Coues, Am. Nat., 1867. 283 (Yuma).

250

Otalpha nogalesensis, (Excl. ben) Peters. Red Bat.

Otalpha (*Lasiurus*) *nogalesensis*, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., VII 87.

251

Nyctinomus mohavensis, Merriam.

"Type 5418 ♂ ad. Fort Mojave, Arizona, March 8, 1889. Vernon Bailey."

252

253

Atalpha Cinerea, (Beauvois) Peters. Hoary Bat.

Atalpha (Lasiurus) cinereus, Coues and Yarrow Zoöl. Expl. W. 100th Merid., V, 1875, 90. "We have, however, examined with a specimen from the southern deserts of Arizona, where it was taken by Lieut. E. Bendire, U. S. A. It is comparatively rare; Dr. Allen writes me that he has only seen some twenty or thirty specimens in all."

254

Vaskertilia nitidus, H. Allen. California Bat. Böol.

Vaskertilia "nitidus", Coues and Yarrow, in table of specimens, Expl. W. 100th Merid., V, 1875, 96. Three specimens in the table from "Southern Arizona."

255

256

Vespertilio subulatus, Say. Little Brown Bat.

Vespertilio subulatus, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 96. Specimens of (check) "*V. subulatus*" from White Mts., Arizona, and Southern Arizona.

257

Atalapha crepuscularis, (Le C.) Coues. Twilight Bat.*

Atalapha (*Nycticejus*) *crepuscularis*, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 87. "Texas" and doubtless occurs in New Mexico.

*Name from Coues & Yarrow, p. 87

Putorius vison

Putorius vison, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 60 "Common throughout the Territory of Utah near the water-courses. Some very fine specimens secured at Provo." Apparently they did not find it south of the above point.

Mustela americana

Mustela americana, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 61. Specimen from Yaos, N. Mex. "Particularly interesting on account of the locality, which is the southernmost on record for the species."

260

261

Vespertilio Carolii, Temminck. Carolina Brown Bat.

Vespertilio (*Vesperus*) *fuscus*, Coues and Yarrow, Zool. Expl. W. 100 att Rep. Geog. Surv. W. 100 att Rep. Geog. Surv. W. 100 att Rep. Geog. Surv

262

Vespertilio lucifugus, Le Conte. Blunt-nosed Bat.

Vespertilio "lucifugus", Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 96. Spec. from "White Mts. Arizona" in table.

263

*Corynorhinus macrotis**

Corynorhinus macrotis, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 84, "The range includes the Upper Missouri region and the Great Basin, and doubtless extends across intermediate ground, as well as into New Mexico and Arizona."

* From Coues & Yarrow, p. 84.

264

Phaeotis watshousei, Gray. Watshouse's Bat.

Phactotus watshousii, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 80. "and southern border of the United States" ~~Fronts~~ California", later by Mr. J. Xantus." "Fort Yuma, Cal."

265

Procyon

Procyon lotor, Coues and Yarrow, Zool. Expl. W. 100 dth Merid., V, 1875, 64. "Observed in Colorado. As we have not completed our studies of this animal, we refrain from citing in the above list of references, several names, which, nevertheless, we believe belong to the synonymy of this species."

266

267

Ursus americanus, Pallas. Black Bear.

Ursus americanus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 875, 66. "White Mountains, Ariz." "Widely distributed throughout North America, and quite numerous in the three Territories visited. Dr. Henshaw records the fact that one of the hunters of the party killed a female bear having with her two cubs, one quite black in color and the other brown," and this, it is stated, is not uncommon. One specimen obtained.

"This animal is very frequently found in nearly all parts of the hilly and wooded country of Arizona. The Coppers and White Mountains appear to be the home of this class of animals. Skins were often brought into Camp by the Indians at Camp Apache."

"Skins of var. cinnamomum were obtained at Camp Apache, and it was also seen at Bill Williams' Mountain, and is chiefly known to attain its greatest size in Arizona and into New Mexico. Obtained by Lieutenant Marshall at Pagosa Hot Springs, Hinsdale County, Colorado, on 8th

Ursus horribilis, Ord. Grizzly Bear.

"*Ursus horribilis*, Coues and Harrow Zool. Expl. W. 100 dth Merid., V, 1875, 65. "Several seen by the party in New Mexico, and a fine cranium obtained in Utah by Mr. Howell."
"A grizzly bear, apparently two years old, was obtained on the northern slope of Bill Williams' Mountain. Several were killed in this same locality by the party, to which Dr. Coues was attached in 1864. They were quite common in the vicinity of Camp Apache." "In 1874 Lieutenant Marshall obtained a skin of this bear, killed near Pagosa Hot Springs, in Western Colorado."

270

Bassaris astuta, Lichtenstein. Common Raconistic.

271

272

Vulpes macrurus

Vulpes macrurus, Lowe and Yarrow. Proc. U.S. Nat. Mus. 1877, 100 (Mesid., V. 1875, 65) ["a single specimen, believed to be of this species, was closely observed at Deep Creek, Utah. It is thought to be tolerably common in Utah and Nevada, its burrows of a size with dens in their possession." A melanic taken at Fort Pinos, Colo., was referred by them to this species. They did not, apparently, find it within the New Mex. or Ariz.]

273

Lutra canadensis, (Turton) Flor. North American Otter.

Lutra canadensis (Sowerby and Turton) 1875, 63. "The otter is found sparingly in some of the fresh water lakes of Scotland; but no specimens have been obtained."	Yarrow, Expl. Wheeler Rpt. "The otter is found sparingly in some portions of the regions examined."

276

277

Mephitis mephitica, (Shaw) Baird. Common Skunk.

Mephitis mephitica, Coues and Yarrow, Bull. U.S. Geol. & Geog. Surv. Terr., 5, 1878, 62. "A number of skunks were killed by the party, but none were brought in. The meat is by most considered delicious." No localities are named.

278

Mephitis putorius, (Linné) Coues. Little Striped Skunk.

279

280

281

Conepatus mapurito, (Gmelin) Coues. White-backed Skunk.

282

283

Yaxidea americana (Boddaert). Amer. Badger.

Yaxidea americana, Coues and Yarrow, Zool. Expl. W. 100th Merid., V. 1875. 63. "Very common throughout Western Utah and Eastern Nevada. Several skins and crania were obtained. Less abundant in New Mexico and Arizona."

284

285

Taxidea americana berlandieri, (Baird) Gray, Mexican Badger.

286

Gulo luscus, (Linné) Sabine. Wolverine.

Gulo luscus, ~~(Linn.) Sabine~~ Coues and Herrick, Zool. Expl. W. 100th Merid. V, 1875, 61 "Sparingly found in Wahsatch Mountains. One very fine skin obtained from Indians at Fillmore, Utah. Skull of specimen seen in Salt Lake City Museum from Bear River, Utah." "Both Mr. Allen and Mr. Ingalls ascertained its occurrence in Colorado south of 40°, and Dr. Coues obtained evidence of its existence even in Arizona."

287

Putorius longicauda, (Bp.) Rich. Long-tailed Weasel.

Putorius longicauda, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875-79 ["The above specimens are interesting as demonstrating a more southerly range of the species than is generally recognized." Two were from Taos, N. Mex., and one from Fort Garland, Colo.]

288

Putorius basilensis frenatus, (Stewart) Coues. Bridled Weasel.

289

Urocyon virginianus virginianus (Schreber). Gray Fox.

Urocyon cinero-argentatus, Coues and Yarrow, Bull. Expl. W. 100 d. Merid., V, 1875, 5-6. "According to our observations, this is to be considered the characteristic fox of Arizona, where it is much more abundant than the Red."

290

Vulpes velox (Say) Aud. & Bach. Kit Fox or Swift Fox.

"Vulpes vulgaris pennsylvanicus, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 62 Quiat. W. S. Nicholall reports having seen a fox which he supposed to be of this variety [The Black or Silver-Gray Fox (argentatus)] in New Mexico. If his identification is correct, this fact would extend the limit of the animal's range for the southward of its ordinary range.] They did not find it except at Fort Bridger, Utah, as far as I can glean from the text. They got a skin there

291

Canis lupus griseo-albus, (Linné) Sabine. Gray Wolf.

Canis lupus occidentalis, Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 43. ["said to be scarce in Colorado, New mexico, and Arizona."]

292

Canis latrans, Say. Coyote.

~~Canis latrans, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 43 [Is said to occur in Colorado, New Mexico, and Arizona.]~~

Canis latrans, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 44 [By far the most abundant carnivorous animal in Arizona.]

293

Felis concolor, Linné. Puma or Cougar.

Felis concolor, Coues and Yarrow, (Colorado, New Mexico, Arizona.)

Zoöl. Expl. W. 100th Merid., V, 1875, 39.

294

Lynx maculatus, (Ord & Horsfield). Spotted Lynx.

Lynx rufus, var. maculatus, Coues and Yarrow, Geol. Expl. W. 100th Merid, V, 1875, 43 (Specimen from White Mts., Ariz.).

295

Lynx rufus

Lynx.

Lynx rufus, Coues and Yarrow, Zoöl. Expl. W. 100th Merid., V, 1875, 41 (Specimens of both L. maculatus & L. rufus from N. Mex & Ariz.)

152

296

Lynx canadensis.

Lynx canadensis Coues and Yarrow, Zool. Expl. W. 100th Merid., V, 1875, 41 ["The Canada Lynx (L. canadensis), though not observed by the Expedition, is known to occur at least as far south as Fort Tejon, Cal., where specimens were taken by Mr. D. Xantus, and sent to the National museum. Like the Wolverine, this species ranges in the Rocky Mountains coincidently south of the latitude it recedes in the eastern portion of the continent."] Neegier's no instance of its actual capture anywhere near Arizona.

Mary Ann Allen
Camp Douglas, Wis
in 1890.

Number	Sex and age	Total length	Head and body	Tail vert	Tail hairs	Tail width	Ear above crown	Ear above notch	Ear width	Ear tuft length	Chest girth	Longest whiskers	Diameter of
844 950	♂ ad.	330	198	137	180	77	17	27	19	none	120	54	7.2
845 901	♂ ad.	319	196	127	170	80	16.5	27	18	none	120	53	7
846 902	♀ ad.	206	120	95	117	37	14	18	10.5	none	65	31 (best. upto 14)	5.6
847 903	♀ ad.	245	155	95	115	37	13	20	15	none	95	25	6
848 904	♀ ad.	515	270	253	330	110	22	32	21	none	155	67	9
851 905	♀ ad.	Tail incomplete	123	broken	broken	35	13	18	10.5	none	65	30	5.6
852 908	♂ ad.	284	187	112	135	43	4.2	12	14	none	95	32	6.5
854 910	♂ ad.	204	118	94	117	38	12.5	18	10.5	none	60	29	5.5
855 911	♂ ad.	205	117	95	117	38	13	18	11.0	none	60	28	5.5
856 912	♂ ad.	206	118	95	116	38	13.5	18	11.0	none	60	29	5.5
863 919	♂ ad.	327	198	140	195	75	17	27	19	9	105	35	7

Tip of nose to	Centre of pupil	Auditory meatus (centres)	Tip of ear	Ear notch	Ear tuft, great lobulate	Knee-joint	Pes length	Pes width	Pes, longest claw	Hind limb	Alveolar	Mamma length	Mamma width	Longest claw of manus	Between eyes
21	26	43	66	59 ~~49~~	310	122	88	48	11.5	6.3	93	65	32	9.7	6.3	
20.5	26	42	63	52	302	125	88	50	12	6.5	92	65	35	9.5	6.5	
14	17.5	30	45	35	184	75	56	31	6	3.3	50	38	18	5	3.3	14
19	22	38	56	44	230	86	65	35	8	4	60	45	22	7.5	4.6	19
32	40	58	91	72	430	178	131	76	15	8.3	123	93	50	13	9.5	36
14	18	29	45	36	190	75	57	32	6.3	3.8	51	38	19	5	3.5	16
18.5	25	38	51	47	265	91	67	39	9	6.5	68	50	24	6.5	6.8	18.5
13	16.5	29	45	36	181	75	56	32	6.3	3.5	49	38	18	5.2	3.2	15.5
13.5	17	29	46	36	183	74	55	32	6.3 ~~6.3~~	3.5	50	37	18	5.1	3.2	15.5
13.5	17	28	45	35	184	73	55	32	6.2	3.5	50	37	18	5.2	3.2	15.5
21	26	43	64	51	309	123	92	52	11	6.5	91	69	34	9.5	6.2	28

1 Lepus sylvaticus
2 Spermophilus tridecimlineatus
3 Tamias striatus lysteri.
4 Sciurus hudsonius
5 Sciurus hudsonius ——— ? Black var.
6 Mephitis mephitica
7 Vulpes fulvus.
8 Arctomys monax
9 Tamias quadrivittatus.
10 Sciurus ludovicianus Fox Squirrel

857. 913 Tamias quadrivittatus neglectus ♂ juv. July 24, 1890, Camp Douglas Wis
858. 914 " " " ♂ ad. do do
859. 915 " " " ♀ juv. do do
860. 916 " " " ♀ juv. do do
861. 917 " " " ♀ juv. do do
862. 918 " " " ♀ juv. do do
863. 919 Sciurus hudsonius ♂ ad. Ft. Snelling, Minn. Aug. 1, 1890. Measurements a preceding page. See skull for age.

844. 900 Sciurus hudsonius ♂ ad. July 12, 1890, Camp Douglas, Wis
845. 901 " " ♂ ad. do do
846. 902 Tamias quadrivittatus ♀ ad. Sweeny young. July 15, 1890, do
847. 903 Tamias striatus ♀ ad. Sweeny young. July 16, 90 do
848. 904 Sciurus ~~hudsonius~~ c. hypophaeus ♀ ad do do
849. 905 " " ♂ juv. do do Yg of above.
850. 906 Tamias quadrivittatus ♂ juv. July 18, 1890
851. 907 " " ♀ ad. do Sweeny young
852. 908 Spermophilus tridecimlineatus ♂ ad. do.
853. 909 Sciurus hudsonius ♂ ad. July 24, 1890 Camp Douglas
854. 910 Tamias quadrivittatus neglectus. ♂ ad. do do
855. 911 " " " ♂ ad. do do
856. 912 " " " ♂ ad. do do

Dear Kellogg:
Is this mammal data from the Mearns collection of any value to Div. Mammals?
C. H. M.